Abritus 72 Ltd
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Programmer for transponders TAGProg and TagKeyTool software module for AVDI User's Manual

Version: 1.0

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1 INTRODUCTION

Congratulations for choosing our wonderful product!
TAG programmer together with TagKeyTool software will allow you to use your Windows based PC like powerful programmer for transponders and tool for programming of transponder based keys.

TAG programmer is a hardware unit produced by ABRITUS 72 Ltd. intended for programming of transponders via AVDI interface.

TAG programmer should be used with ABRITES software produced by Abritus 72 Ltd.

ABRITES is a trade mark of Abritus 72 Ltd.

1.1 Scope of the manual

This document describes software and hardware installation of your transponder programmer named "TAG Programmer" and corresponding software named "Abrites TagKeyTool".
The document is applicable for the transponder programmers from Abritus 72 Ltd. - ZN001M.

1.2 Your transponder programmer

The basic package of TAG programmer consists:

- Small carry bag

- TAG programmer

- Installation CDs/DVDs (optional)

2 SYSTEM REQUIREMENTS

Minimum system requirements – Windows XP, Pentium 4 with 512 MB RAM
USB port with supply 100 mA / 5V +/- 5%

3 GETTING STARTED

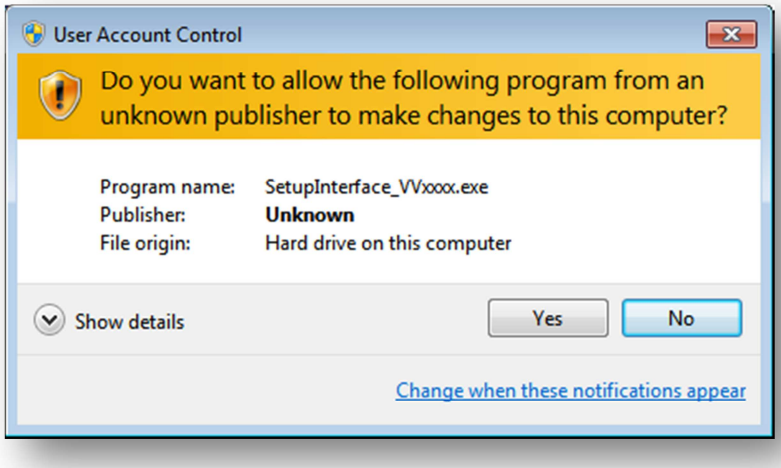
We suppose that already your AVDI interface is configured and fully working.
You can receive optional separate installation file of your "Abrites TagKeyTool" software for your AVDI and tag programmer.
.

Software is a windows executable file named 'SetupTagKeyTool_VVxxxx.exe' where VVxxxx isyour interface identification number.

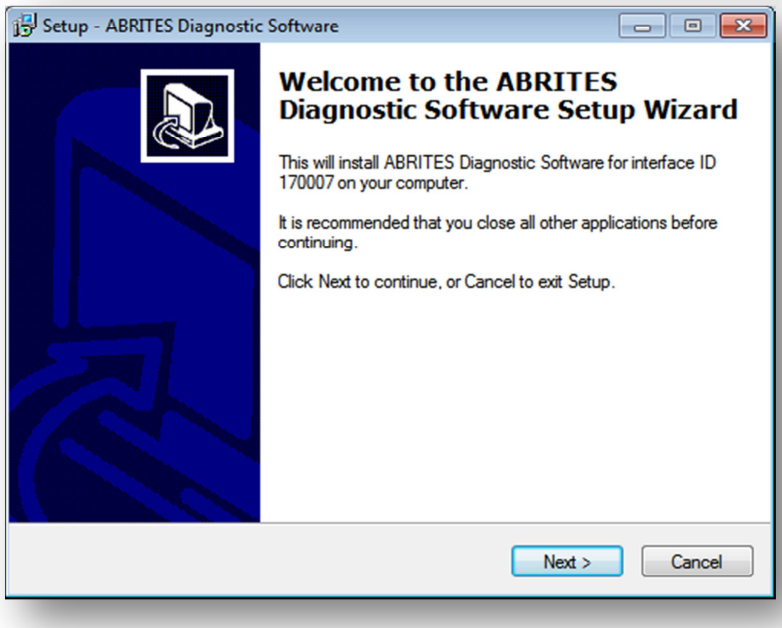
3.1 Software installation steps

Please start the executable file above to initiate installation procedure and follow the onscreen instructions.

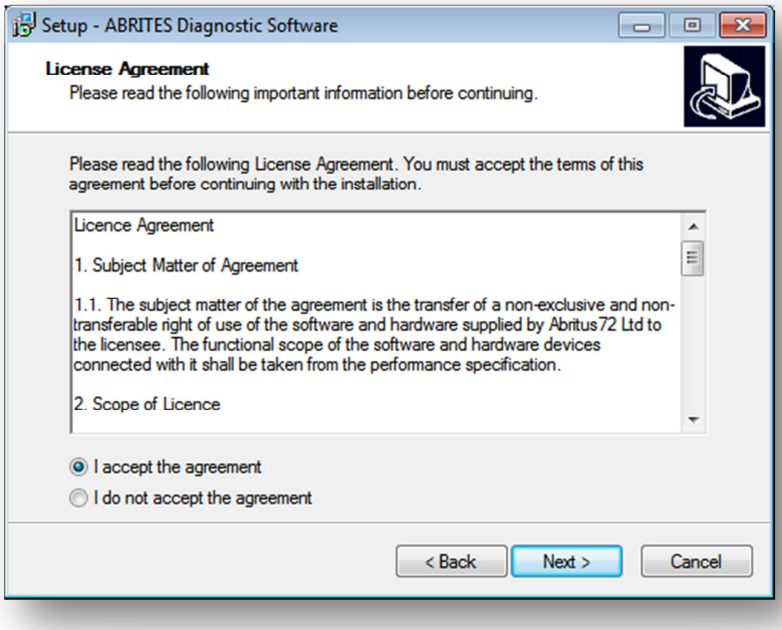
Depending of your operation system and settings you can be asked to confirm starting of installation procedure.


User Account Control
Do you want to allow the following program from an unknown publisher to make changes to this computer?
Program name: SetupInterface_VVxxxx.exe
Publisher: Unknown
File origin: Hard drive on this computer
Show details
Yes
No
Change when these notifications appear

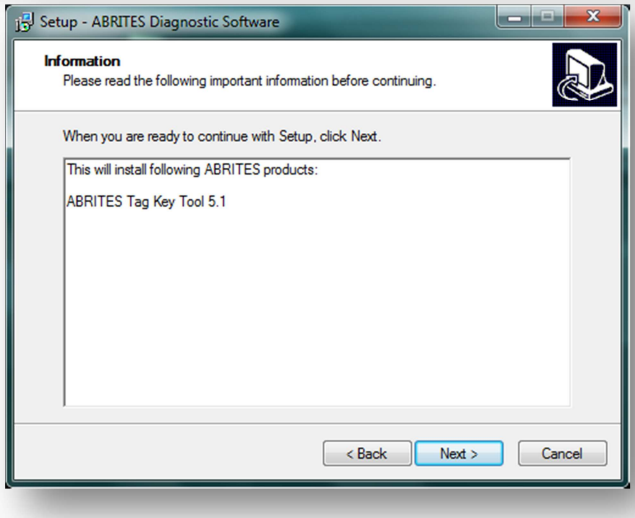
Press "Next" button to proceed with the installation.


Setup - ABRITES Diagnostic Software
Welcome to the ABRITES Diagnostic Software Setup Wizard
This will install ABRITES Diagnostic Software for interface ID 170007 on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
Next >
Cancel

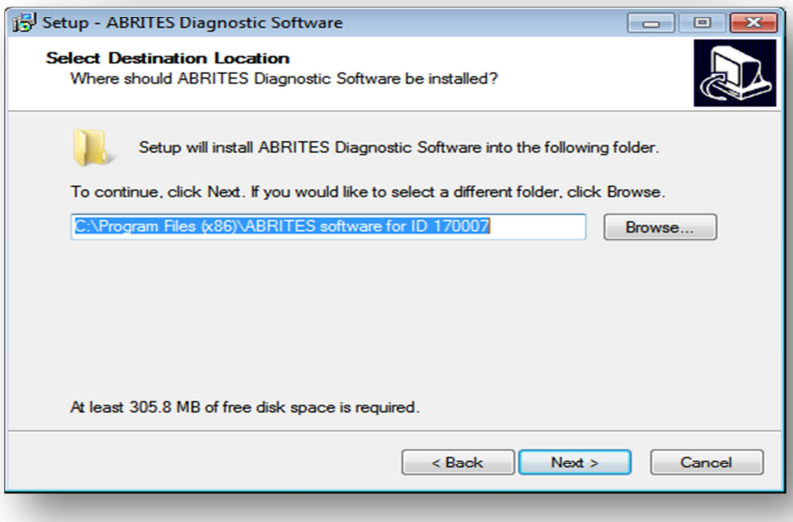
Read carefully license agreement and select "I accept the agreement" if you accepting all. Then press "Next" button.
If you not agree press cancel to interrupt installation procedure.


Setup - ABRITES Diagnostic Software
License Agreement
Please read the following important information before continuing.
Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.
Licence Agreement
1. Subject Matter of Agreement
1.1. The subject matter of the agreement is the transfer of a non-exclusive and non-transferable right of use of the software and hardware supplied by Abritus72 Ltd to the licensee. The functional scope of the software and hardware devices connected with it shall be taken from the performance specification.
2. Scope of Licence
I accept the agreement
I do not accept the agreement
< Back
Next >
Cancel

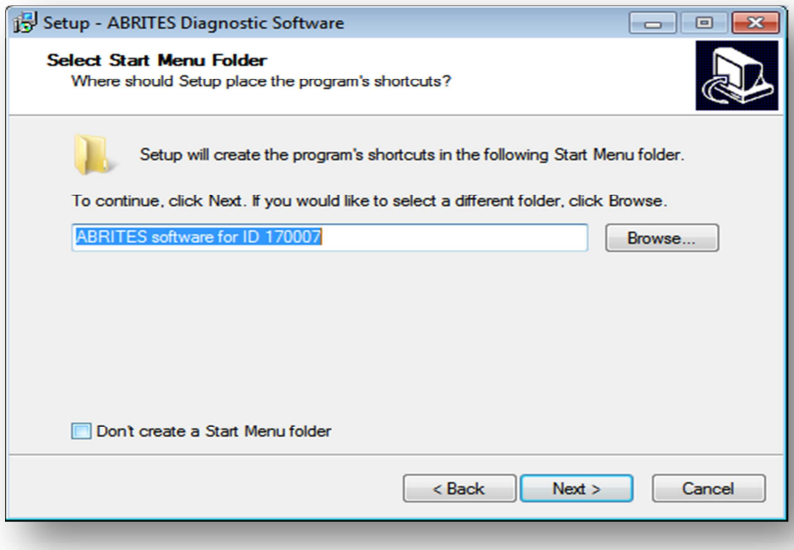
Press "Next" button to proceed with the installation.


Setup - ABRITES Diagnostic Software
Information
Please read the following important information before continuing.
When you are ready to continue with Setup, click Next.
This will install following ABRITES products:
ABRITES Tag Key Tool 5.1
< Back
Next >
Cancel

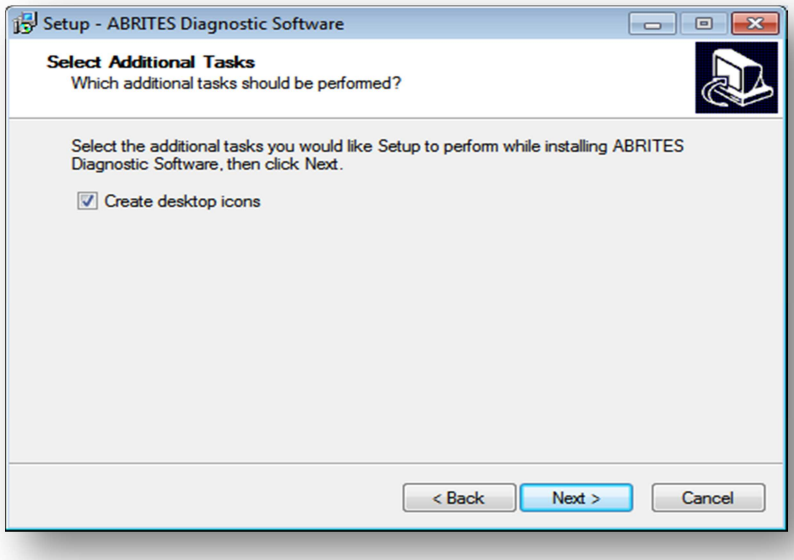
Press "Next" button to proceed with the installation.


Setup - ABRITES Diagnostic Software
Select Destination Location
Where should ABRITES Diagnostic Software be installed?
Setup will install ABRITES Diagnostic Software into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
C:\Program Files (x86)\ABRITES software for ID 170007
Browse...
At least 305.8 MB of free disk space is required.
< Back
Next >
Cancel

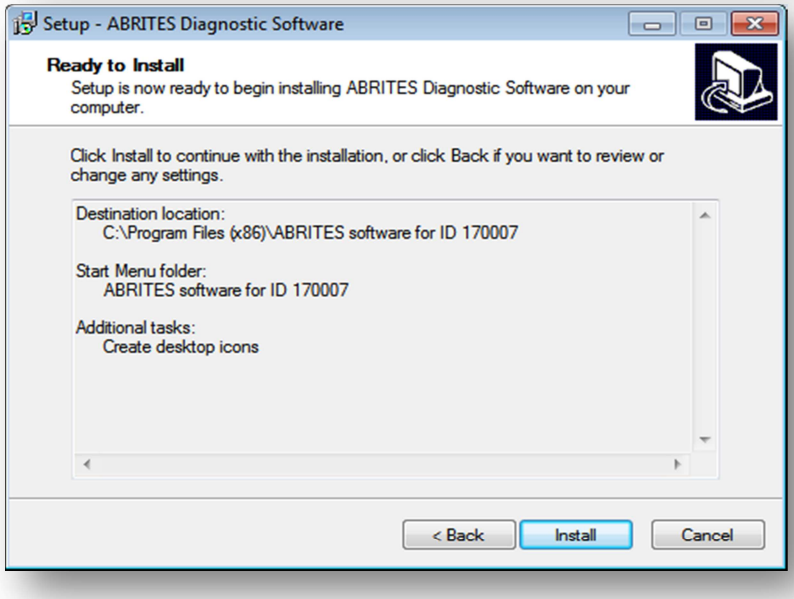
Press "Next" button to proceed.


Setup - ABRITES Diagnostic Software
Select Start Menu Folder
Where should Setup place the program's shortcuts?
Setup will create the program's shortcuts in the following Start Menu folder.
To continue, click Next. If you would like to select a different folder, click Browse.
ABRITES software for ID 170007
Browse...
Don't create a Start Menu folder
< Back
Next >
Cancel

If you don't want desktop icons uncheck the checkbox about creation of icons.
Press "Next" button to proceed.

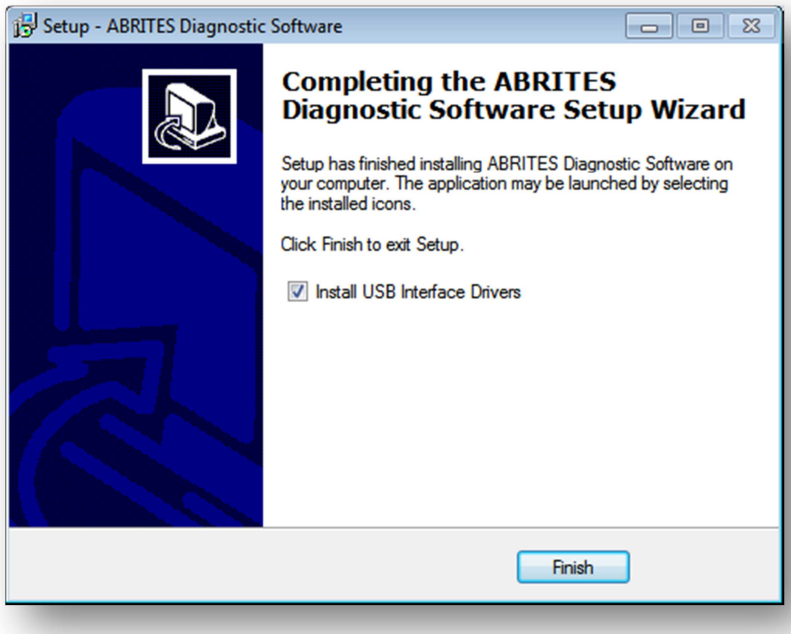

Setup - ABRITES Diagnostic Software
Select Additional Tasks
Which additional tasks should be performed?
Select the additional tasks you would like Setup to perform while installing ABRITES Diagnostic Software, then click Next.
Create desktop icons
< Back
Next >
Cancel

Press "Install" and wait until installation complete.


Setup - ABRITES Diagnostic Software
Ready to Install
Setup is now ready to begin installing ABRITES Diagnostic Software on your computer.
Click Install to continue with the installation, or click Back if you want to review or change any settings.
Destination location:
C:\Program Files (x86)\ABRITES software for ID 170007
Start Menu folder:
ABRITES software for ID 170007
Additional tasks:
Create desktop icons
< Back
Install
Cancel

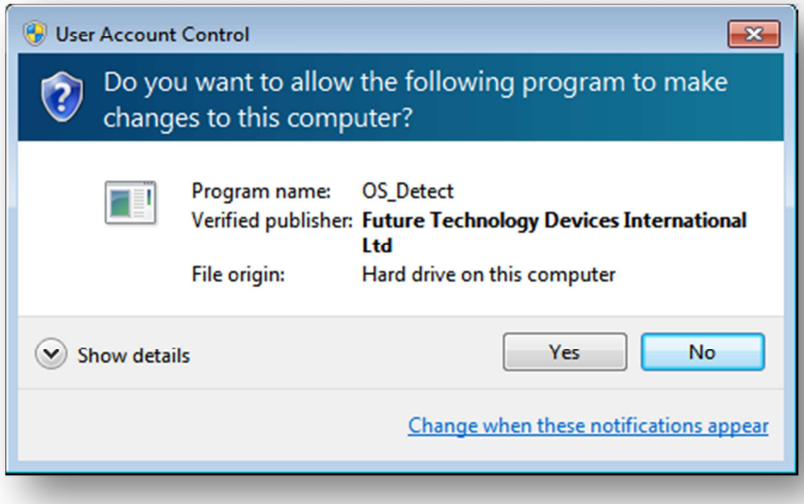
Be sure that checkbox about installation of interface's USB drivers is set especially if you installing for first time Abrites Diagnostic Software.

Press "Finish".

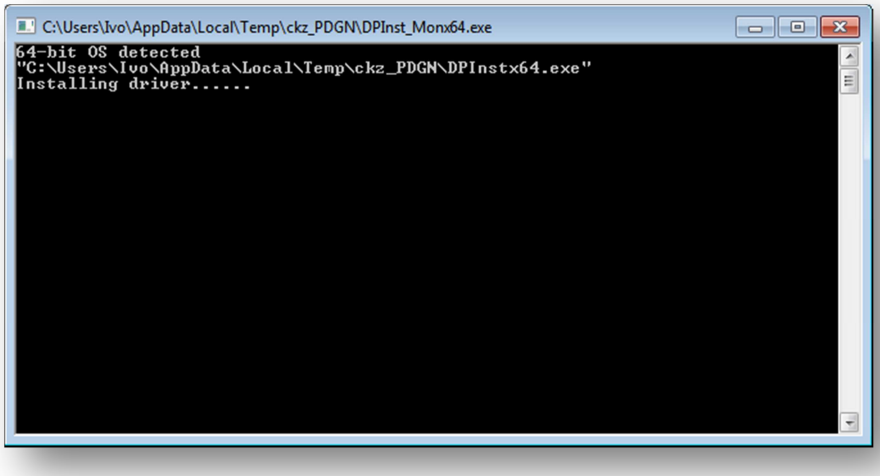

Setup - ABRITES Diagnostic Software
Completing the ABRITES Diagnostic Software Setup Wizard
Setup has finished installing ABRITES Diagnostic Software on your computer. The application may be launched by selecting the installed icons.
Click Finish to exit Setup.
Install USB Interface Drivers
Finish

Depending setting of your operation system you can be asked to confirm installation of USB drivers.

Press "Yes".


User Account Control
Do you want to allow the following program to make changes to this computer?
Program name: OS_Detect
Verified publisher: Future Technology Devices International Ltd
File origin: Hard drive on this computer
Show details
Yes
No
Change when these notifications appear

Wait until installation of USB driver finish.



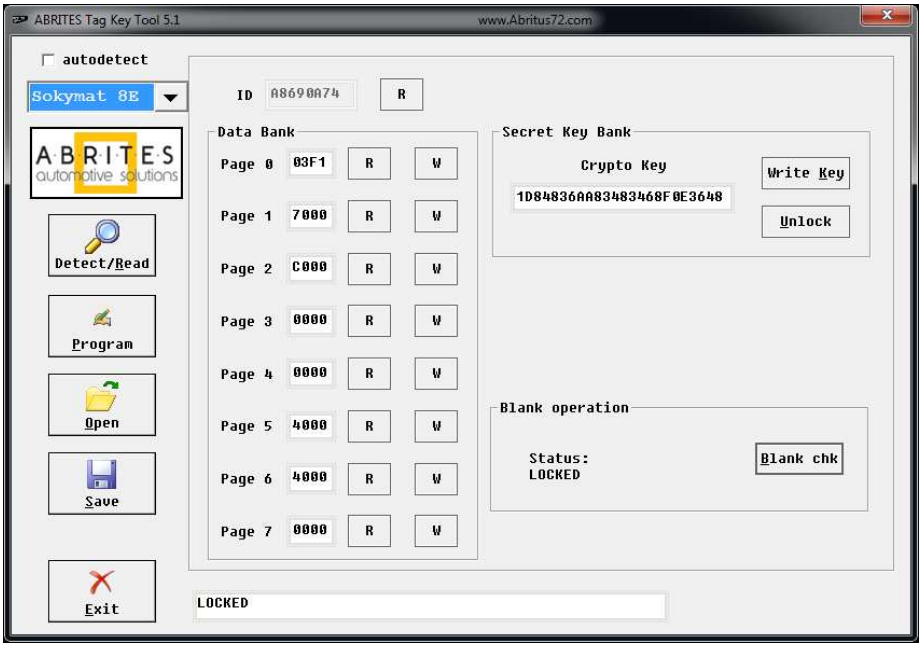
3.2 Connection of the programmer to the interface

Once your AVDI interface ready for working you can connect TAG programmer to the interface.

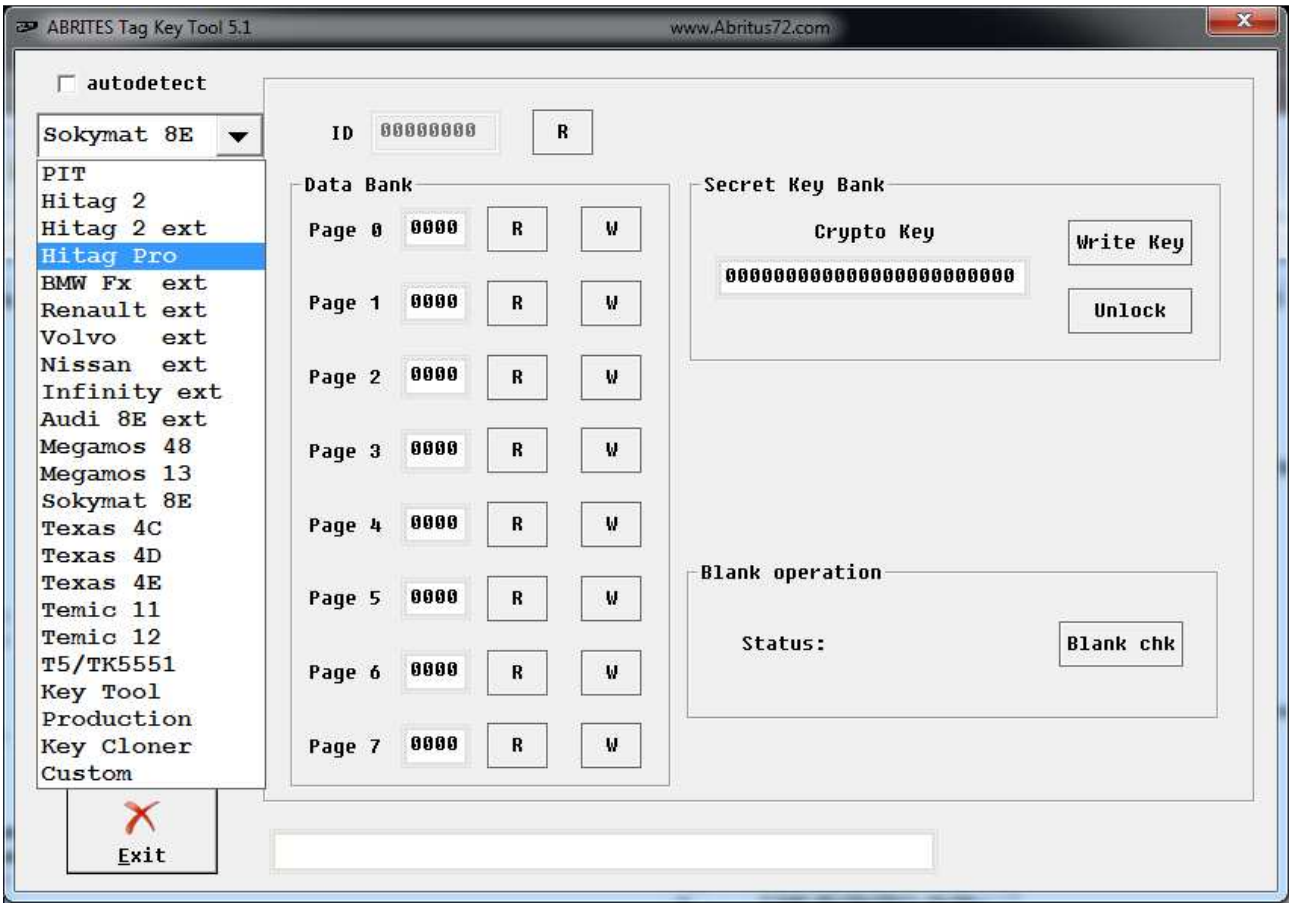
3.3 Starting of the software

When programmer is ready and connected to the interface you can start some of the applications from your installation package. Each of these applications will notify you that TAG programmer is found and will use TAG programmer when is needed.

If you using TAG Key Tool application will appear following screen:



From the drop down list you can select some of needed transponders types or utilities which you needed.



Supported transponders from version 5.1 are:
Philips PIT transponders – PCF7930, PCF7931, PCF7935
HITAG-2 transponders – PCF7936, PCF7941, ….
HITAG-Pro transponders – PCF7937, PCF7938, PCF7939, PCF7952
Megamos 13 transponders (fixed)
Megamos 48 transponders (crypto)
Sokymat 8E transponders
Temic 11
Temic 12
Temic T5
Texas TIRIS 4C (fixed)
Texas TIRIS 4D (crypto) / TPX2
Texas TIRIS 4E (crypto) / TPX2

Also you have ability to access additional EEPROM memory of the keys, to prepare a keys ready for starting of the vehicle using 'Key Tool', to prepare transponders ready for programming by diagnostic equipment – 'Production' and also you can prepare a 'cloning' of a key using function 'Key Cloner'.

4 TAG KEY TOOL – WORKING WITH DIFFERENT TRANSPONDERS

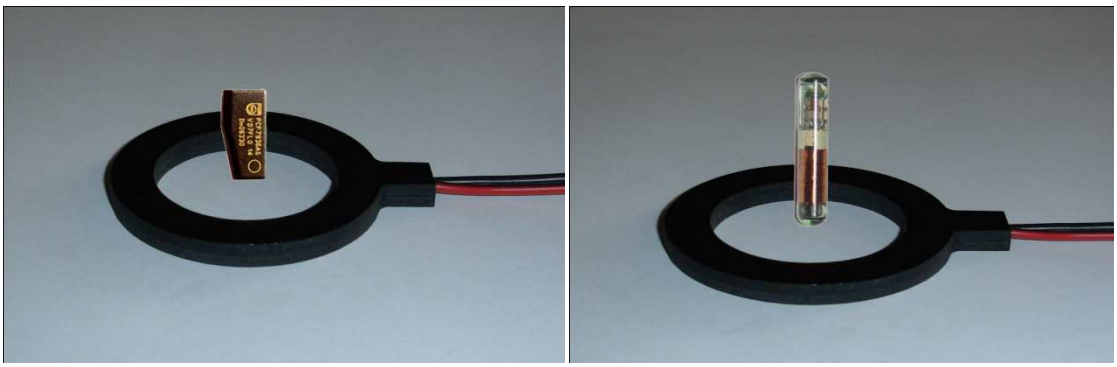
Once selected from the drop down list needed for you transponder will appear corresponding screen with options for reading and programming of the fields of the transponder.
The main buttons name "Read/Detect" and "Program" are intended where is possible to read and program whole memory of the transponder.
Many types of transponder are read only and function of the button "Program" is to prepare compatible transponder which can emulate target transponder.
Bellow is emulation list:
Megamos 13 can be emulated with T5 or PIT transponder.
Temic 11/12 can be emulated with T5.
Texas 4C can be emulated with TPX1 (available from version 5.2 of TagKey Tool).
Texas 4D/4E can be emulated with TPX2.
HITAG-2 can be emulated with TPX3/TPX4 (available from version 5.2 of TagKey Tool).

The small buttons "R" and "W" are intended to read or program only separate field from transponder memory.

Please when working with transponder be informed about corresponding transponder specification. Many of the fields from transponder memory can be programmed only once.

Important is place of the transponder when you read or program.
Different transponder and keys have different direction of the fields. Bellow you can see the right positions for different transponders and keys.

Position of the so named graphite and glass transponders:

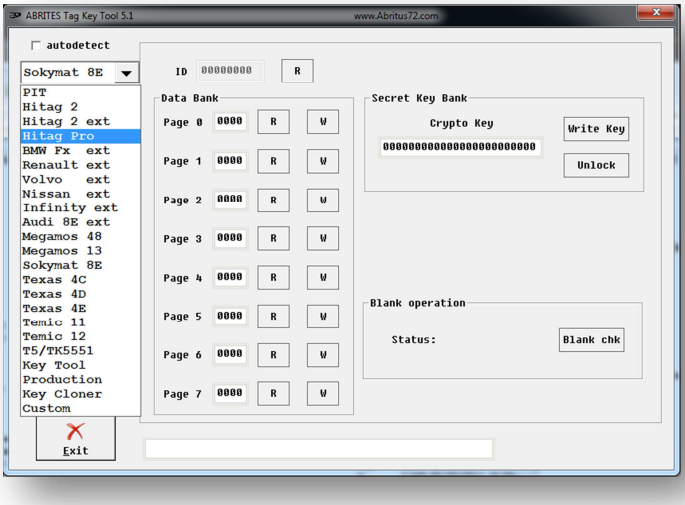


Position of some keys:

5 TAG KEY TOOL – KEY TOOL AND PREPARATION OF A KEY BY DUMP OF IMMOBILIZER SYSTEM

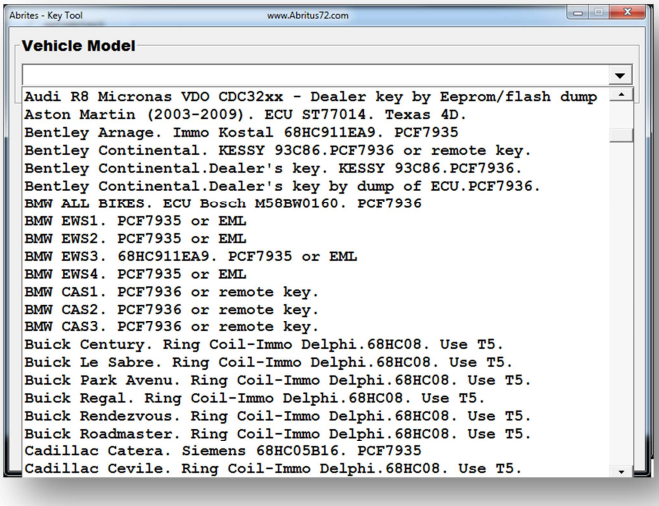
"Key tool" is an utility intended for preparation of a key when is present dump from immobilizer system of the vehicle.

From the list of transponders and functions of the main screen you can select this utility.



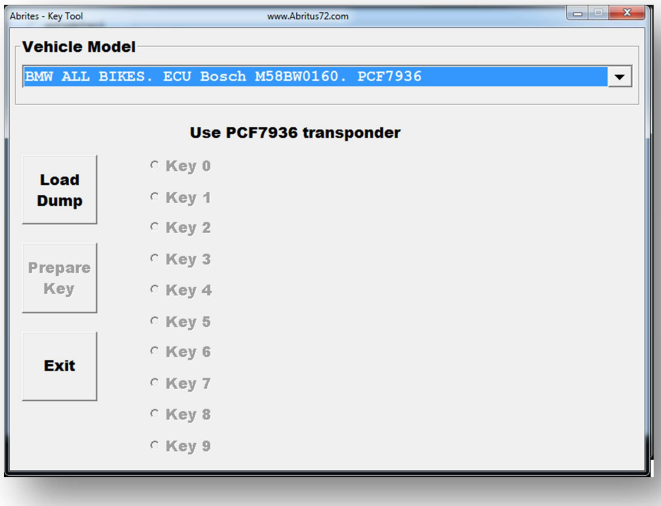
Once selected key tool will appear a screen with drop list from where you can select your model and immobilizer system.

In the list is described the model, immobilizer module, type of memory where is stored key data and needed transponder/key for programming.


Abrites - Key Tool
www.Abritus72.com
Vehicle Model
Audi R8 Micronas VDO CDC32xx - Dealer key by Eeprom/flash dump
Aston Martin (2003-2009). ECU ST77014. Texas 4D.
Bentley Arnage. Immo Kostal 68HC911EA9. PCF7935
Bentley Continental. KESSY 93C86.PCF7936 or remote key.
Bentley Continental.Dealer's key. KESSY 93C86.PCF7936.
Bentley Continental.Dealer's key by dump of ECU.PCF7936.
BMW ALL BIKES. ECU Bosch M58BW0160. PCF7936
BMW EWS1. PCF7935 or EML
BMW EWS2. PCF7935 or EML
BMW EWS3. 68HC911EA9. PCF7935 or EML
BMW EWS4. PCF7935 or EML
BMW CAS1. PCF7936 or remote key.
BMW CAS2. PCF7936 or remote key.
BMW CAS3. PCF7936 or remote key.
Buick Century. Ring Coil-Immo Delphi.68HC08. Use T5.
Buick Le Sabre. Ring Coil-Immo Delphi.68HC08. Use T5.
Buick Park Avenu. Ring Coil-Immo Delphi.68HC08. Use T5.
Buick Regal. Ring Coil-Immo Delphi.68HC08. Use T5.
Buick Rendezvous. Ring Coil-Immo Delphi.68HC08. Use T5.
Buick Roadmaster. Ring Coil-Immo Delphi.68HC08. Use T5.
Cadillac Catera. Siemens 68HC05B16. PCF7935
Cadillac Cevile. Ring Coil-Immo Delphi.68HC08. Use T5.

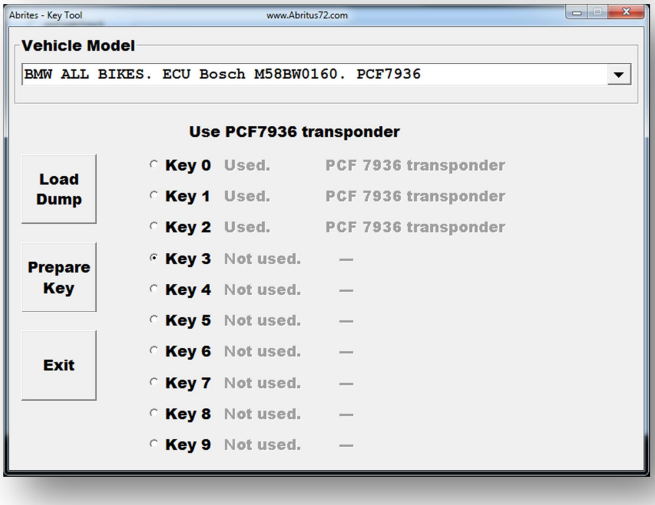
When model is selected next your step should be to load file consist immobilizer data (dump).

You can load the dump pressing button "Load Dump".



When dump is loaded you should select which exactly key position you want to be programmed.

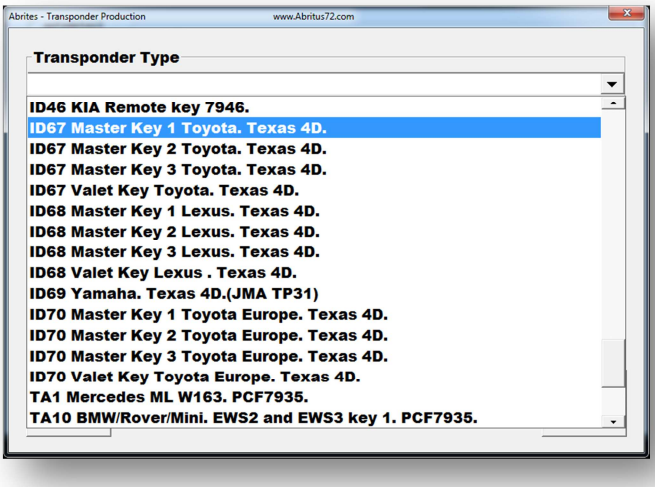
Remaining is to place your transponder/key on the programmer's antenna and to press the button "Prepare Key".
When programming of the transponder finish if is needed you will be asked for the file name of the modified dump.


Abrites - Key Tool
www.Abritus72.com
Vehicle Model
BMW ALL BIKES. ECU Bosch M58BW0160. PCF7936
Use PCF7936 transponder
Load Dump
Prepare Key
Exit
Key 0 Used. PCF 7936 transponder
Key 1 Used. PCF 7936 transponder
Key 2 Used. PCF 7936 transponder
Key 3 Not used. —
Key 4 Not used. —
Key 5 Not used. —
Key 6 Not used. —
Key 7 Not used. —
Key 8 Not used. —
Key 9 Not used. —

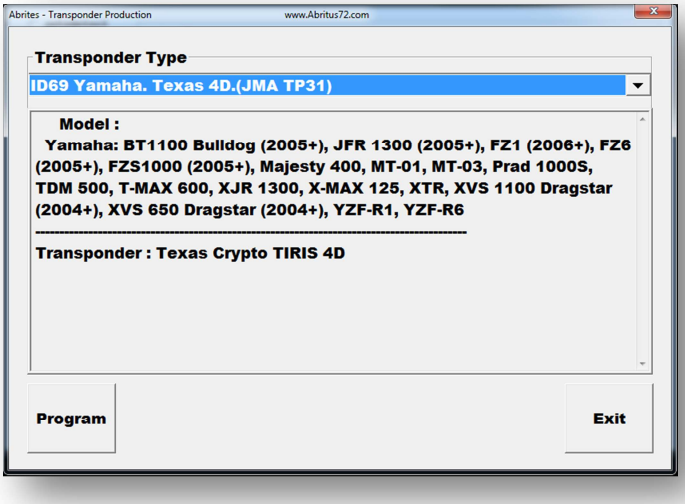
6 TAG KEY TOOL – PRODUCTION UTILITY AND PREPARATION OF A KEY READY FOR PROGRAMMING BY DIAGNOSTIC EQUIPMENT

"Production" is an utility intended for preparation of transponders ready for programming by diagnostic equipment.

From the list of transponders and functions of the main screen you can select this utility.


Abrites - Transponder Production
www.Abritus72.com
Transponder Type
ID46 KIA Remote key 7946.
ID67 Master Key 1 Toyota. Texas 4D.
ID67 Master Key 2 Toyota. Texas 4D.
ID67 Master Key 3 Toyota. Texas 4D.
ID67 Valet Key Toyota. Texas 4D.
ID68 Master Key 1 Lexus. Texas 4D.
ID68 Master Key 2 Lexus. Texas 4D.
ID68 Master Key 3 Lexus. Texas 4D.
ID68 Valet Key Lexus . Texas 4D.
ID69 Yamaha. Texas 4D.(JMA TP31)
ID70 Master Key 1 Toyota Europe. Texas 4D.
ID70 Master Key 2 Toyota Europe. Texas 4D.
ID70 Master Key 3 Toyota Europe. Texas 4D.
ID70 Valet Key Toyota Europe. Texas 4D.
TA1 Mercedes ML W163. PCF7935.
TA10 BMW/Rover/Mini. EWS2 and EWS3 key 1. PCF7935.

From the screen of "Production" utility you have to choice which type of transponder key want to be prepared. Then simply place your transponder/key on the programmer's antenna and to press the button "Program".
When programming of the transponder finish if is needed you will be asked for the file name of the modified dump.

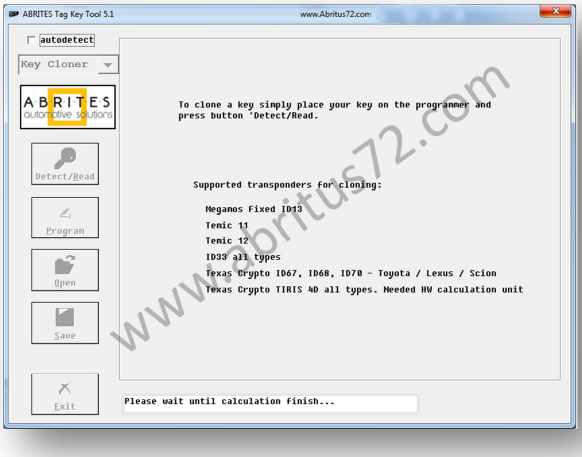

Abrites - Transponder Production
www.Abritus72.com
Transponder Type
ID69 Yamaha. Texas 4D.(JMA TP31)
Model :
Yamaha: BT1100 Bulldog (2005+), JFR 1300 (2005+), FZ1 (2006+), FZ6 (2005+), FZS1000 (2005+), Majesty 400, MT-01, MT-03, Prad 1000S, TDM 500, T-MAX 600, XJR 1300, X-MAX 125, XTR, XVS 1100 Dragstar (2004+), XVS 650 Dragstar (2004+), YZF-R1, YZF-R6
Transponder : Texas Crypto TIRIS 4D
Program
Exit

Information about needed transponder is displayed.

7 TAG KEY TOOL – CLONING OF A KEY

The function cloning allow you to prepare a cloning of some key. Supported keys/transponders fo cloning currently are : Megamos 13, Temic 11, Temic 12, Toyota/Lexus/Scion Texas TIRIS 4D and all types ID33.

When existing key is placed on the programmer's antenna press the button "Read/Detect". Programmer will read the key and will show you a message what kind of transponder to place on the programmer to prepare cloned transponder.



If you have INTERNET connected to your PC, you've the ability to cloning all kind of TIRIS 4D transponders not only Toyota/Lexus/Scion Texas 4D (ID67, ID68, ID70).